

10/070924

JC10 Rec'd PCT/PTO 13 MAR 2002

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
Takuya MATSUMOTO : **Attn: BOX PCT**  
Serial No. NEW : **Docket No. 2002\_0343A**  
Filed March 13, 2002 :

**ELECTROSTATIC COATER WITH POWER  
TRANSMISSION FREQUENCY ADJUSTER  
[Corresponding to PCT/JP01/06175  
Filed July 17, 2001]**

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

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**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents,  
Washington, DC 20231

Sir:

**Prior to initial examination of the above-identified application, kindly amend  
the application as follows:**

**IN THE CLAIMS:**

**Kindly amend claims 3-6 as follows:**

3.(Amended) The electrostatic painting device **as defined in claim 1**,  
wherein said current sensor means is provided in said high-frequency low-voltage  
generator to detect a current supplied to said low-voltage cable.

4.(Amended) The electrostatic painting device **as defined in claim 1**,  
wherein said frequency control means performs an operation for adjusting a frequency of

said high-frequency low-voltage when the power switch of the electrostatic painting device is closed.

5.(Amended) The electrostatic painting device **as defined in claim 1**, wherein said frequency control means performs an operation for adjusting a frequency of said high-frequency low-voltage at the set times.

6.(Amended) The electrostatic painting device **as defined in claim 1**, further comprising an abnormality indication means for indicating an abnormal state when a current value detected by said current sensor means exceeds a predetermined value, said frequency control means performing an operation for adjusting a frequency of said high-frequency low-voltage when an abnormal state is indicated.

**Kindly add the following new claims:**

7.(NEW) The electrostatic painting device **as defined in claim 2**, wherein said current sensor means is provided in said high-frequency low-voltage generator to detect a current supplied to said low-voltage cable.

8.(NEW) The electrostatic painting device **as defined in claim 2**, wherein said frequency control means performs an operation for adjusting a frequency of said



9.(NEW)

**10.(NEW)**

**11.(NEW)**

12.(NEW)

current value detected by said current sensor means exceeds a predetermined value, said frequency control means performing an operation for adjusting a frequency of said high-frequency low-voltage when an abnormal state is indicated.

13.(NEW) The electrostatic painting device **as defined in claim 5**, further comprising an abnormality indication means for indicating an abnormal state when a current value detected by said current sensor means exceeds a predetermined value, said frequency control means performing an operation for adjusting a frequency of said high-frequency low-voltage when an abnormal state is indicated.


**REMARKS**

The present Preliminary Amendment is submitted to delete the multiple dependencies of claims 3-6, thereby placing such claims in condition for examination and reducing the required PTO filing fee.

Copies of the amended portion of the claims with changes marked therein is attached and entitled "Version with Markings to Show Changes Made."

Respectfully submitted,

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CLAIMS

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1. An electrostatic painting device with a transmission frequency adjustment device, comprising:

high-voltage booster circuit provided inside the body of the electrostatic painting device to rectify a high-frequency low-voltage and generate a DC high voltage for electrostatic painting;

high-frequency low-voltage generator provided independently of said electrostatic painting device to generate said high-frequency low-voltage;

a low-voltage cable connecting said high-frequency low-voltage generator to said high-voltage booster circuit;

current sensor means for detecting a current value corresponding to an intrinsic consumed current at said high-voltage booster circuit;

frequency control means for adjusting a frequency of said high-frequency low-voltage in such a manner that a current value detected by said current sensor means does not exceed a prescribed value.

2. The electrostatic painting device as defined in Claim 1, wherein said frequency control means exercises control to determine a frequency of said high-frequency low-voltage in such a manner that a current value detected by said current sensor means becomes the smallest.

3. (Amended) The electrostatic painting device as defined in Claim 1 [or 2], wherein said current sensor means is provided in said high-frequency low-voltage generator to detect a current supplied to said low-voltage cable.

4. (Amended) The electrostatic painting device as defined in Claim 1 [or 2], wherein said frequency control means performs an operation for adjusting a frequency of said high-frequency low-voltage when the power switch of the electrostatic painting device is closed.
5. (Amended) The electrostatic painting device as defined in Claim 1 [or 2], wherein said frequency control means performs an operation for adjusting a frequency of said high-frequency low-voltage at the set times.
6. (Amended) The electrostatic painting device as defined in [one of] Claims 1 [- 5], further comprising an abnormality indication means for indicating an abnormal state when a current value detected by said current sensor means exceeds a predetermined value, said frequency control means performing an operation for adjusting a frequency of said high-frequency low-voltage when an abnormal state is indicated.

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